

Title (en)
Color ink composition for ink jet printers

Title (de)
Farbtintenzusammensetzung für Ink-Jet Drucker

Title (fr)
Composition d'encre pour des imprimantes à jet d'encre

Publication
EP 1138729 B1 20050112 (EN)

Application
EP 01302449 A 20010316

Priority
US 54010200 A 20000331

Abstract (en)
[origin: EP1138729A1] An ink jet ink composition is provided for large format printers for printing on both porous, non-porous, and hybrid glossy media. The ink composition comprises at least one water-soluble dye and a vehicle comprising at least one co-solvent and at least two different surfactants, a non-ionic surfactant and a fluoro-surfactant. The total surfactant concentration ranges from about 0.1 to 5 wt% of the ink composition. The nonionic surfactant is present in a range of about 0.05 to 3 wt% of the ink composition, while the fluoro-surfactant is present in a range of about 0.001 to 3 wt% of the ink composition. The ink formulation that works well with porous, non-porous, and hybrid glossy media and provides substantially instant ink drying and light fastness of the ink. Further, the ink formulation evidences excellent image quality. The ink can also pass harsh pen material compatibility tests. The ink does not puddle on the surface of the orifice plate in the default pen, yet has low viscosity. The ink is excellent in pen reliability such as long decap time, no decel, no kogation, and good drop directionality.

IPC 1-7
C09D 11/00; **C09D 11/02**

IPC 8 full level
B41J 2/01 (2006.01); **B41M 5/00** (2006.01); **C09D 11/00** (2006.01)

CPC (source: EP US)
C09D 11/38 (2013.01 - EP US); **C09D 11/40** (2013.01 - EP US)

Cited by
EP1860162A3; EP2251389A1; EP1391489A1; EP1791917A4; CN103890109A; CN102597134A; CN105968954A; US7094813B2; SG139601A1; EP1473338A4; EP1700891A3; CN103403107A; EP2683780A4; US9899123B2; US7741385B2; US9016830B2; US8690308B2; US8188159B2; US8752951B2; WO2004106076A1; WO2007041628A1; WO2008055029A3; WO2007070689A1; WO2006023792A1; WO2006099145A1; WO2007044110A1; US8632700B2; US8815126B2; US6857733B2; US6969166B2; US7699457B2; US7332023B2; US9017467B2; EP1243628A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1138729 A1 20011004; **EP 1138729 B1 20050112**; DE 60108287 D1 20050217; DE 60108287 T2 20050623; JP 2001335725 A 20011204; JP 5192623 B2 20130508; US 6436180 B1 20020820

DOCDB simple family (application)
EP 01302449 A 20010316; DE 60108287 T 20010316; JP 2001103015 A 20010402; US 54010200 A 20000331